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UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION V
ENVIRONMENTAL SERVICES DIVISION
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

August 29, 1986

David R. Hill, Manager
Analytical services
OBG Laboratories, Inc.
1304 Buckley Road
Syracuse, New York 13221

Dear Mr. Hill:

This letter transmits to your laboratory, Performance Evaluation (PE) samples for the NL Granite City, Illinois Site. A due date for completion of their analysis will be directed by Mr. Holt of NL Industries, Inc., after consultation with Mr. Brad Bradley, Region V, U.S. EPA.

PE. Samples NL #1 and #2 are to each be tested for arsenic, cadmium, chromium, copper, lead, nickel, and selenium. PE Sample's NL #3 and #4 are to each be tested for antimony. We currently have no samples to send you for silver. Testing of the above 4 samples is to be done by graphite furnace atomic absorption spectroscopy in accordance with Table C-1 of the Granite City site Quality Assurance Project Plan.

Samples NL #1 and NL #2 are to be prepared by dilution of the concentrate at the rate of 10.0ml per liter.

Sample NL #3 is to be prepared at the rate of 10.0ml of concentrate per 500ml.

Sample NL #4 is to be prepared at the rate of 5.00ml of concentrate per liter.

All of the above are to be diluted with reagent water containing nitric acid (2 - 5ml per liter) of the same concentration as your laboratory standard solutions for dissolved metals analysis.

Results are to be returned to our Office to the attention of Mr. David A. Payne, Chemist. The results should be reported using the same data package for the Granite city evidence files and should contain hard copies of graphite furnace printouts for the analysis of these samples, and corresponding standards and QC audits.

Questions concerning these sample analyses should be directed to Mr. Payne at (312) 353-7712 or Dr. Chi Tang at (312) 886-6254.

Sincerely yours,

David A. Payne for
James H. Adams Jr.
James H. Adams, Jr., Chief
Quality Assurance Office

cc: B. Bradley, CES
S. Hong, CES
S. Holt, NL Industries
F. Hale, OB & G